

Weekly Report

1/4/2016-1/10/2016

Work

This week, I have completed a report about operation system and read two papers about graph. [2, 1]. Besides, I am invited to process trajectory data for Wu Feiran's phd thesis recently. Next week, I plan to finish other coursework and process data with Ma Yuxin as soon as possible.

The trajectory data processed by spark contains some errors. Records from 19:00 to 24:00 is missing at first. Fortunately, Ma Yuxin fix this bug and data seem back to normal.

2013/12/17 23:00	2013/12/18 0:00	477842	430321	右边紫色一栏是旧的
2013/12/18 0:00	2013/12/18 1:00	1950978	1732852	
2013/12/18 1:00	2013/12/18 2:00	1640836	1438041	
2013/12/18 2:00	2013/12/18 3:00	1151845	1031316	
2013/12/18 3:00	2013/12/18 4:00	927167	833842	
2013/12/18 4:00	2013/12/18 5:00	685334	639234	
2013/12/18 5:00	2013/12/18 6:00	938826	883502	
2013/12/18 6:00	2013/12/18 7:00	2361730	2259427	
2013/12/18 7:00	2013/12/18 8:00	6038254	5822054	
2013/12/18 8:00	2013/12/18 9:00	5673765	5504860	
2013/12/18 9:00	2013/12/18 10:00	5356946	5214071	
2013/12/18 10:00	2013/12/18 11:00	5018259	4905962	
2013/12/18 11:00	2013/12/18 12:00	5077812	4963493	
2013/12/18 12:00	2013/12/18 13:00	4835377	4735019	
2013/12/18 13:00	2013/12/18 14:00	4828458	4727736	
2013/12/18 14:00	2013/12/18 15:00	4802099	4709150	
2013/12/18 15:00	2013/12/18 16:00	4965609	4871033	
2013/12/18 16:00	2013/12/18 17:00	5455811	5340949	
2013/12/18 17:00	2013/12/18 18:00	6215621	6056625	
2013/12/18 18:00	2013/12/18 19:00	4786600	2040285	
2013/12/18 19:00	2013/12/18 20:00	4270288	0	
2013/12/18 20:00	2013/12/18 21:00	3813543	0	
2013/12/18 21:00	2013/12/18 22:00	3226073	0	
2013/12/18 22:00	2013/12/18 23:00	2407116	0	
2013/12/18 23:00	2013/12/19 0:00	1563764	0	
2013/12/19 0:00	2013/12/19 1:00	0	0	

Figure 1: data during 2013/12/18 in NingBo

Plan for next week

- Prepare for final exam.

References

- [1] Nikos Armenatzoglou, Ritesh Ahuja, and Dimitris Papadias. Geo-social ranking: functions and query processing. *The VLDB Journal—The International Journal on Very Large Data Bases*, 24(6):783 – 799, 2015.
- [2] Rong-Hua Li, Jeffrey Xu Yu, Rui Mao, and Tan Jin. Efficient and accurate query evaluation on uncertain graphs via recursive stratified sampling. In *Data Engineering (ICDE), 2014 IEEE 30th International Conference on*, pages 892 – 903. IEEE, 2014.